

**ABSTRACT****SUPEROXIDE DISMUTASE AS A VACCINE ANTIGEN**

Compositions comprising Cu,Zn-Superoxide dismutase (Cu,Zn-SOD), nucleic acid encoding a Cu,Zn-SOD and/or antibody to a Cu,Zn-SOD are described as well as their use as vaccines. Also described are methods for isolation of Cu,Zn-SODs and for preparation of pharmaceutical compositions, preferably for providing or eliciting protective immunity to meningococcal infection in an animal.